



Universidad  
de Huelva

SERVICIO DE  
LENGUAS MODERNAS

## FICHA de la asignatura

**TITLE: EFFECTS OF GLOBAL CHANGES ON NATURAL ECOSYSTEMS**

**Tutor: Pablo Hidalgo Fernández**

**ECTS: 6 (first and second semester)**

### Description

This module is focused on the effects on natural ecosystems of global changes. Nowadays, the species and the ecosystems are seriously treated due to these effects. Global warming, ozone depletion and acid rain are the most important changes affecting the biosphere.

### Aims

The aim of this module is to provide the student some notions about the main environmental problems and its effects on natural ecosystem.

### Learning outcomes

By the end of the module students should be able to:

- Appreciate the incalculable value of natural environment.
- Know the most important global changes affecting the natural ecosystems.
- Analyze the main environmental problems that cause global changes.
- To understand and to promote the possibility of the sustainable use of the natural resources.
- Aptitude to take action to managing in different types of ecosystems under different degrees of human intervention.



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### Syllabus indicative content

- Introduction to global process.
- Natural origin of global changes.
- The effect of global change on species and ecosystems.
- Ozone depletion and acid rain: the effects on species and ecosystems.

### Assessment

Coursework (weighting): 70%

Other activities (visit to research centres, practices, etc.): 30%

### Reading list

Canadell, Josep G., Diane E. Pataki, Louis F. Pitelka. 2007. Terrestrial ecosystems in a changing world. 336 p. Springer, Berlin

Dolman A.J., A. Verhagen, C.A. Rovers. 2003. Global environmental change and land use. 210 p. Kluwer Academic Publishers, Boston.

Jacobson Michael C. [et al.]. 2003. Earth system science: from biogeochemical cycles to global change. 523 p. Academic Press, San Diego.

Global Change Biology. Journal of Wiley-Blackwell.

Culver Stephen J. and Peter F. Rawson. 2000. Biotic response to global: the last 145 million years. 501 p. Cambridge University Press, New York.